

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference IMM152B.PCT		FOR FURTHER see Notific Report (Fo item 5 below 5)		cation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, ow.					
International application No. PCT/US03/38900		International filing date (day/month/year) 08 December 2003 (08.12.2003)		(Earliest) Priority Date (day/month/year) 08 December 2002 (08.12.2002)					
Applicant IMMERSIO	N CORPORATION								
This internated	ational search report has been o Article 18. A copy is bein	n prepared by this International Se g transmitted to the International I	arching A Bureau.	uthority and is transmitted to the applicant					
This interna	ntional search report consists	of a total of $\frac{2}{2}$ sheets. d by a copy of each prior art documents	ment cited	in this report.					
	language in which it was filed	unless otherwise indicated under the	ns nem.	basis of the international application in the					
the international search was carried out on the basis of a translation of the international application furnished to this									
b.		e and/or amino acid sequence discl		e international application, the international					
		al application in written form.							
片		national application in computer rea	dable form	n.					
100		his Authority in written form.		·					
	furnished subsequently to t	his Authority in computer readable	form.						
H	the statement that the subse	equently furnished written sequence	listing doe	es not go beyond the disclosure in the					
	:	filed has been furnished.							
	been furnished.		le form is	identical to the written sequence listing has					
2.	Certain claims were foun	d unsearchable (See Box I).		·					
3.	Unity of invention is lacki	ing (See Box II).							
4. With	regard to the title,								
$\boxtimes$	the text is approved as sub-			•					
	the text has been established	ed by this Authority to read as follow	vs:	·					
		·		• •					
5. With	regard to the abstract,								
	the text is approved as sub	mitted by the applicant.							
$\boxtimes$	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may within one month from the date of mailing of this international search report, submit comments to this Authority.								
6. The f	igure of the drawings to be p	ublished with the abstract is Figure	No. <u>1</u>						
	as suggested by the applica			None of the figures					
Ħ	because the applicant faile								
		characterizes the invention.							
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orm PCT/I	SA/210 (first sheet) (July 199	0)		•					

### INTERNATIONAL SEARCH REPORT

international application No.

.PCT/US03/38900

## Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

#### **NEW ABSTRACT**

Embodiments of the invention relate to methods and systems for providing customized "haptic messaging" to users of handheld communication devices (110) in a variety of applications. In one embodiment, a method of haptic messaging includes: receiving an input signal associated with an actuation of a user-interface member (112); determining a haptic code associated with the actuation; and including the haptic code in an output signal to be sent to a remote handheld communication device (110). In another embodiment, a method of haptic messaging includes: receiving an input signal; outputting a request relating to a contact with a user-interface member (112) coupled to a handheld communication device (110); and providing a control signal associated with the contact to an actuator (130) coupled to the handheld communication device (110), the control signal being configured to cause the actuator (130) to output a haptic effect associated with the input signal.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38900

	OF CUMPTON AS AMERIN							
A. CLASSIFICATION OF SUBJECT MATTER								
IPC(7) : G 06 F 3/00; G 09 G 5/00								
US CL : 710/5; 345/702 According to International Patent Classification (IPC) or to both national classification and IPC								
The state of the s								
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)								
U.S. : 710/5; 345/702								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Microsoft Computer Dictionary								
Microsoft Computer Dictionary								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)								
IEEE Xplore database								
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	UMENTS CONSIDERED TO BE RELEVANT		of the relevant naceages	Relevant to claim No.				
Category *	Citation of document, with indication, where ap	1-31						
X,P	US 2003/0174121 A1 (POUPYREV et al) 18 Septem	iber 2003 (	18.09.2003), paragrpans					
	3,33,43,46,48,49,74,76-79,81,106,111,128-131.	12 (06 08 2	2002) column 2 lines 6-53:	1-5,10-13,17,19-25				
x	US 6,429,846 B2 (ROSENBERG et al) 6 August 200 column 3, lines 39-63; column 5 lines 10-13; column	12 (00.00.2 6 lines 5	5-67: column 7. lines 50-65.					
	column 3, lines 39-63; column 3 lines 10-13, column	o, mes s.	5 07, <b>column</b> 7, 111100 00 00	6-9,14-16,18,26-31				
Y .								
	US 6,018,711 (FRENCH-ST. GEORGE et al) 25 Jan	าแลรง 2000	(25.01.2000), column 3,	6-9,14-16,18,26-31				
Y	lines 14-67, column 5 lines 33-37.							
	lines 14-07, column 5 lines 55 57.							
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Further documents are listed in the continuation of Box C.  See patent family annex.								
	pecial categories of cited documents:	"T"	later document published after the inte date and not in conflict with the appli	ernational filing date or priority				
			principle or theory underlying the inv	ention				
"A" document	t defining the general state of the art which is not considered to be	document of particular relevance; the						
of particular relevance "X"			considered novel or cannot be considered	ered to involve an inventive step				
"E" earlier ap	plication or patent published on or after the international filing date		when the document is taken alone					
"L" document	which may throw doubts on priority claim(s) or which is cited to	"Y"	document of particular relevance; the	claimed invention cannot be				
establish	the publication date of another citation or other special reason (as	-1	annidered to involve an inventive ste	n when the document is				
specified)			combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"O" document	t referring to an oral disclosure, use, exhibition or other means							
"P" document published prior to the international filing date but later than the			document member of the same patent	family				
priority d	late claimed							
Date of the a	ctual completion of the international search	nailing of the international sea	en report					
1			14 APR/2004					
23 March 2004 (23.03.2004)			Authorized officer					
Name and mailing address of the 15A/05								
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			Jeffrey A Gaffin					
P.O. Box 1450			Telephone No. 703 308-3900					
Alexandria, Virginia 22313-1450								
Facsimile No. (703)305-3230								
Form PCT/ISA/210 (second-sheet) (July-1998)								

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.